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ABSTRACT

The document presents the program performance report for the Handicapped Children's Early Education Program, a project to arrange workshops on providing training for young cerebral palsied children. A chart lists the outcomes of 31 program objectives such as reviewing the literature to determine existing means of evaluating cognitive and prelinguistic skills of cerebral palsied children. Appended materials, which make up the bulk of the document, include the following: charts with information on replication sites, staff, and children served; a list of agencies/persons participating in project lectures, consultations, and presentations and receiving project program materials; workshop participants' lists; written reports and statistical data from evaluation of gains in knowledge of 6 day workshop participants; and a report on consultant activities. (SBH)

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COMPREHENSIVE TRAINING PROGRAM FOR INFANT AND YOUNG CEREBRAL PALSIED CHILDREN

CURATIVE REHABILITATION CENTER

FINAL REPORT

July 1, 1978 to June 30, 1979

Rona Alexander, Ph.D.
Project Director

EC123987

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DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
OFFICE OF EDUCATION
BUREAU OF EDUCATION FOR THE HANDICAPPED

Program Performance Report
for
Handicapped Children's Early Education Program

Part I

1. Date of Report: September, 1979 2. Grant Number: G007801635

3. Project Number: 444BH80045

4. Period of Report: From July 1, 1978 to June 30, 1979

5. Grantee Name: Curative Rehabilitation Center
(Formerly Curative Workshop of Milwaukee)

6. Project Name: Comprehensive Training Program For Infant and Young Cerebral Palsied Children

7. Certification: I certify that to the best of my knowledge and belief this report (consisting of this and subsequent pages and attachments) is correct and complete in all respects, except as may be specificially noted herein.

Rona Alexander

Rona Alexander, Ph.D.
Project Director

PART II

"ACCOMPLISHMENT REPORTING"

OBJECTIVES AND OUTCOMES

OBJECTIVES	OUTCOMES
1. To select replication agencies on the basis of criteria established by the project.	1. Fifteen (15) new replication agencies were selected according to project criteria. Three (3) additional sites were selected but were unable to attend due to major funding difficulties. For a complete list of replication sites, see Appendix A.
2. To make preliminary contacts with agencies requesting information about Project replication providing written information as a foundation for later personal contact.	2. Preliminary contacts with eighteen (18) replication agencies and over sixty (60) other agencies were made and the following information was provided: a. Project Brochure b. Brief Description of Project c. One-page Project Abstract d. Outline of Workshop on Fundamental Guidelines e. Program Materials Inventory List f. Request for Replication Application (See Appendix B-2)
3. To make contractual agreements with those agencies applying for replication who fulfill Project criteria based upon the replication model, the individual agency's needs, and the general replication timeline established by the Project.	3. Replication strategies and contractual agreements were established with all new replication sites prior to participation in the six-day Fundamental Guidelines Workshop.
4. To invite staff and administration from each replication agency to observe the program.	4. Scheduled visits of replication agency staff were arranged during workshops and other times.
5. To schedule Workshop on Fundamental Guidelines with the goal of providing the "replication team" from each new replication site with the skills necessary to inaugurate the program.	5. Six Fundamental Guidelines Workshops (4 at Curative Rehabilitation Center, 1 in Waukesha, Wisconsin, and 1 in Great Falls, Montana) were conducted on September 11-16, 1978; October 30-November 4, 1978; November 28-30 and December 3-5, 1978; January 15-20, 1979; February 5-10, 1979; and February 19-24, 1979 (see Appendix C). Reading materials, the Nutrition

	Information Packet, and the Manual of Readings were sent to all participants prior to the workshop. The Project Manual, Language Curriculum File, Pre-Linguistic Curriculum File, Pre-Linguistic/ Cognitive Learning in Children with Cerebral Palsy manual and the Nutrition and the Young Child with Cerebral Palsy manual were distributed at the Workshop. All participants were given Pre and Post Self-Rating Scales and Pre and Post Pre-Speech and Language Programming Examinations. (See Appendix D.) A total of 119 professionals were trained with 62 participants attending from new replication sites.
6. To schedule a Workshop on Fundamental Guidelines with the goal of providing training for new staff of replication sites accepted during the first 5 years of outreach.	6. In all Fundamental Guidelines Workshops, space was allotted for training of new or additional staff from replication sites accepted during the first 5 years of outreach. A total of 56 participants from previously trained sites attended including 4 professionals from Manitoba Orthopedic School and 3 professionals from Woodhaven Center so as to re-establish replication activities at these sites. (See Appendix C.)
7. To invite faculty from college and university programs to participate in the Workshop on Fundamental Guidelines.	7. Dr. James Reading from Marquette University attended the September 11-16, 1978 Fundamental Guidelines Workshop.
8. To schedule two courses in the Administration of the Pre-Speech Assessment Scale.	8. Due to increased numbers of eligible participants from six-day Fundamental Guidelines Workshops, three (3) Pre-Speech Assessment Scale Workshops were conducted December 13-15, 1978; February 28-March 2, 1979; and June 4-6, 1979. A total of 39 participants from replication sites attended including 38 speech pathologists and 1 occupational therapist. (See Appendix C.)

9. To assign Project staff to provide follow-up visits with the purpose of evaluating implementation of program plans and strengthening evaluation and treatment skills of staff who attended the Fundamental Guidelines Workshop.	9. Project staff provided initial follow-up visits to all fifteen (15) of the new replication facilities.
10. To remain available for consultation after the replication program is stabilized.	10. Project staff provided additional visits to ten (10) previously-trained sites in Glenn Dale, Maryland; Beaverton, Oregon; Portland, Oregon; Kentfield, California; Milwaukee, Wisconsin; Philadelphia, Pennsylvania; Mason City, Iowa; St. Paul, Minnesota; Corpus Christi, Texas; and Great Falls, Montana. All of these visits were scheduled to coincide with already scheduled trips to near-by areas of the country.
11. To plan problem-solving days for staff of replication sites in the same locality.	11. A Reliability Study/Problem Solving Day Workshop was conducted on May 3-4, 1979. Twenty-two (22) participants previously trained in the Pre-Speech Assessment Scale attended. (See Appendix C.)
12. To continue and expand student training activities within the continuation program at the Curative Rehabilitation Center.	12. Five speech pathology graduate students, six occupational therapy students, fifteen physical therapy students, and one psychology student from Marquette University, University of Wisconsin-Milwaukee, University of Wisconsin-Madison (OT only), University of Nebraska (PT only), Temple University (OT only), and Western Michigan University (OT only), have affiliated with Curative for their clinical practicums. Four associate degree candidates in child development from Cardinal Stritch College and Milwaukee Area Technical College participated in clinical practicums through Curative's Child Development program. Two social work students from University of Wisconsin-Milwaukee and Mt. Mary College did practical experience at Curative. In addition, eight pediatric residents and four medical students from the Medical College of Wisconsin and one medical student from the University of Wisconsin Medical School-Madison came to Curative for 1-3 month affiliations. (See Appendix B-1.)

13. To provide meetings, half-day conferences at various universities and agencies with the purpose of encouraging early intervention and appropriate treatment of the handicapped children.

13. Conferences and lectures on early intervention and appropriate treatment of handicapped children have been included in lectures listed in #14.

14. To present lectures, demonstrations, audio-visual programs and the revised slide program to interested groups.

14. Lectures, demonstrations, and audio-visual programs (including the revised slide program) have been presented at the following meetings or locations since July 1, 1978:

a. The Wisconsin Dept. of Public Instruction Poly-Institute in Stevens Point, Wisconsin
b. The National Diffusion Network conference in Gatlinburg, Tenn.
c. The Moorehead Special Education Cooperative in Moorehead, Minn.
d. The Marshall Special Education Cooperative in Marshall, Minn.
e. The Milwaukee Teachers Education Association Meeting in Milwaukee, Wisconsin.
f. The American Speech and Hearing Association Convention in San Francisco, California.
g. The Eastern Illinois Speech and Hearing Association convention in Champaign, Illinois.
h. The National CEC Convention in Dallas, Texas.
i. The Wisconsin Occupational Therapy Association spring conference in Milwaukee, Wisconsin.
j. The Ada Wilson School in Corpus Christi, Texas. (See Appendix B-1.)

15. To invite interested professionals and non-professionals to observe the Project.

15. Professionals and non-professionals observed demonstrations of therapy with young cerebral palsied children. (See Appendix B-1.)

16. To arrange for Project staff and staff from replicating agencies to attend a Neurodevelopmental Treatment Course.

16. Linda Kliebhan, Assistant Project Director, was sent to a special Neurodevelopmental Treatment Course in casting due to special teaching needs which have developed in this area during six-day Fundamental Guidelines Workshops and site visits. Funding cuts made assistance for attendance at longer and more expensive Neurodevelopmental Treatment courses impossible.

17. To arrange for logistical support (children, technical assistance, administrative assistance, etc.) for an 8-week N.D.T. Course to be held at the Curative Rehabilitation Center in 1978-79.	17. Assistance was provided during the 8-week N.D.T. Course given June - August, 1979 at the Curative Rehabilitation Center.
18. To review the literature to determine existing means of evaluating cognitive and pre-linguistic skills of cerebral palsied children.	18. An extensive search and review of the literature pertaining to the evaluation of cognitive and pre-linguistic skills in neuromuscularly involved children was conducted and a formal bibliography was completed. (See Appendix E-1.)
19. To develop a written manual or handbook describing guidelines in evaluting the cognitive and pre-linguistic skills of the cerebral palsied child.	19. A written manual was developed which describes suggested guidelines to be implemented in evaluating cognitive and pre-linguistic skills of the neuromuscularly-involved child based upon a modified version of the Uzgiris and Hunt assessment of cognitive and pre-linguistic development from birth to 12 months. (See Appendix E-1.)
20. To develop a demonstration film with emphasis on showing important considerations in evaluating the cognitive and pre-linguistic skills of the cerebral palsied child.	20. A demonstration videotape was developed which reviews the important aspects of evaluating cognitive and pre-linguistic skills in the neuromuscularly involved child as it relates to the modified version of the birth-12 month Uzgiris and Hunt Scales. (See Appendix E-1.)
21. To modify existing Pre-Linguistic Scales for the purpose of evaluating cerebral palsied children.	21. After extensive investigation of existing evaluative tools, it was determined that the Uzgiris and Hunt Ordinal Scales of Psychological Development were the most useful in evaluating pre-linguistic and cognitive development. Therefore, modifications were made in the scales (birth to 12 months) so as to make them more useful in evaluating a neuromuscularly-involved population. Due to the nonexistence of any other useful tool and due to the extensiveness of the Uzgiris and Hunt Scales, it was decided that only the birth to 12 month scales would be modified this project year. (See Appendix E-1.)

22. To develop a series of questions which investigate the nutritional intake of the cerebral palsied infant.	22. A nutritional intake questionnaire was developed which collects physical and nutritional data on infants and children from birth to 24 months who have suspected or diagnosed neuromuscular damage. (See Appendix E-2.)
23. To establish nutritional guidelines for infants with cerebral palsy.	23. Statistically significant nutritional guidelines for infants with cerebral palsy could not be established due to the limited number of new children evaluated at Curative who fell within the established criteria. Based upon this difficulty, replication sites are now being required to supply nutritional information such as that needed to establish these guidelines in order to provide a larger number of subjects who fall within the criteria. Analysis has been completed on information obtained on the small number of children seen at Curative who fulfilled study criteria. (See Appendix E-2.)
24. The presentation of a 45-60 minute lecture on nutrition as part of the Workshop on Fundamental Guidelines.	24. A lecture on nutrition was included in both the October 30-November 4, 1978 and the January 15-20, 1979 Fundamental Guidelines Workshops. Participants generally found this lecture to be useful and interesting.
25. To complete the Pre-Speech Assessment Scale.	25. Funding was not provided for the cross-sectional analysis of normal infants. Detailed analysis of films on feeding and oral motor development, respiration-phonation, and sound play developed in the Longitudinal Study of Six Normal Infants was completed. An extensive revision of the Pre-Speech Assessment Scale was completed in December, 1978 based upon reliability data and feedback questionnaires from therapists trained in the 1977 version of the Scale. Additional data was collected on therapists trained in the use of the Scale this 1978-79 project year and has been incorporated in the Scale to be used during the 1979-80 project year. (See Appendix E-3.)

26. To complete films for reliability testing of the Pre-Speech Assessment Scale.	26. Reliability films have been completed. They were used to test inter-examiner reliability in the May 3-4, 1979 Reliability Study/Problem Solving Day Workshop.
27. To develop two films on normal feeding development.	27. It was decided when funding was cut for specific consultant activities and when statistical consultant suggestions recommended more extensive reliability data and data analysis procedures that the two silent films on normal feeding development would not be completed this year.
28. To develop a series of screening questionnaires to identify infants who might develop feeding problems requiring complete testing with the Pre-Speech Assessment Scale.	28. Funding was not provided for this objective.
29. To develop a videotape on the pre-speech and feeding evaluation.	29. A preliminary script has been developed for the pre-speech and feeding videotape. Emphasis in training of replication sites and providing follow-up site visits required that extensive work of the development of this videotape be reduced.
30. To obtain copyrights and publication of major C.P. Project written materials and audio-visual materials.	30. Contacts were made at the November, 1978 Project Director's Meeting with Project LINC concerning publication of Project Materials. The project director and audio-visual specialist attended the special Project LINC workshop in April, 1979 in Atlanta, Georgia in order to obtain specific information on publishing and in order to present all materials now available for publication. Copyright holders have been or are now being contacted in regard to obtaining permission for the use of specific charts/quotes contained in C.P. Project materials prior to the submission of these materials to LINC for possible future publication.
31. To provide the Project's Advisory Council with information on recent Project progress.	31. The March, 1979 C.P. Project Newsletter was not completed due to significant time spent by project staff in training, providing site visits, and lecturing from January - June, 1979. A more extensive Newsletter will be completed in the Fall, 1979 which will be sent to all Advisory Council members.

PART III

UNANTICIPATED SPIN-OFFS

1. The project has provided assistance in organizing and planning a special national conference on The Infant and Young Child with Developmental Disabilities to be held August 20-25, 1979 at the Curative Rehabilitation Center. This conference is being conducted in order to observe the International Year of the Child and to celebrate Curative's 60th anniversary as a comprehensive outpatient medical agency for the rehabilitation of disabled children and adults.

2. An unprecedented fifteen new sites replicated the C.P. Project model this year. Since more agencies are now fulfilling project criteria due to the stricter rules established through federal regulations such as P.L. 94-142, fewer agencies are being disapproved for replication. Federal and State laws have encouraged agencies to seek training such as that provided by the C.P. Project.

3. Two six-day workshops were conducted at previously-trained replication facilities. This was the only way that additional workshops could be held since it was impossible to conduct more than the four scheduled workshops at Curative. Sites which would not have been able to replicate due to travel costs were therefore able to replicate the C.P. Project model. In addition, previously trained sites were able to train new and/or additional staff as requested.

4. In order to increase the number of trained individuals providing reliability data on the Pre-Speech Assessment Scale, a pilot study was attempted in which reliability films were sent to a site in St. Paul, Minnesota. This allowed five individuals to view the films and provide reliability data who otherwise would have been unable to travel to Milwaukee to participate in the Reliability Study. The success of this pilot procedure encouraged the project to establish this as the primary means for obtaining reliability data in the future.

5. Dr. Suzanne Morris conducted a two-week advanced speech course for therapists certified in Neuro-Developmental Treatment in which fifteen participants were trained in the Pre-Speech Assessment Scale. This will provide even larger numbers of trained individuals from which reliability data can be gathered (see list of participants on following page).

ASSESSMENT AND TREATMENT PLANNING IN THE
MANAGEMENT OF PRE-SPEECH DISORDERS

July 30 - August 10, 1979

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APPENDIX A

REPLICATION SITE INFORMATION

1. Replication sites and children served

2. Replication sites and staff

NAP= No Answer Provided

NUMBER OF CHILDREN IN PROJECT REPLICATION MODELS

Replication Site	Pre-Speech and Feeding				Language Stimulation				Receiving Both Language Stim. and Pre-Speech and Feeding				Number of Parents or Families In Parent Part.	Number of Children Receiving Expanded Services since Replication Initiated or since 8/1/78			
	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs		0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs
Curative Rehabilitation Ctr. Milwaukee, Wisconsin	60	0	0	0	40	0	0	0	15	0	0	0	60	No answer provided			
Crippled Children's Div. University of Oregon Portland, Oregon	20	10	10	5	8	1	11	9	8	1	11	9	105	40	40	15	10
Center on Human Development University of Oregon Eugene, Oregon	21	6	5	0	21	6	5	0	No answer provided				NAP	No answer provided			
McGrath Special Ed. Center Wayne, Michigan	No answer provided				0	1	2	2	No answer provided				0	No answer provided			
St. Paul Rehab. Center St. Paul, Minnesota	0	0	0	0	6	0	0	0	0	0	0	0	6	No answer provided			
Wausau Hospital Inc. Wausau, Wisconsin 54401	20	10	5	0	20	0	0	0	20	10	5	0	40	No answer provided			
Cerebral Palsy Inc. Green Bay, Wisconsin	175	0	0	0	175	0	0	0	175	0	0	0	175	0	0	0	0
United Cerebral Palsy Children's Hosp. Med. Ctr. Cincinnati, Ohio	24	20	0	0	0	0	0	0	0	0	0	0	45	No answer provided			
Easter Seal Society for Crippled Children St. Joseph, Michigan	6	3	0	0	6	3	0	0	6	3	0	0	9	No answer provided			
Jayne Shover Rehab. Center Elgin, Illinois	68	9	0	0	32	9	7	0	32	9	7	0	46	No answer provided			
DuPage Easter Seal Villa Park, Illinois	20	15	0	0	53	0	0	0	20	0	0	0	20	No answer provided			

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NAP= No Answer Provided

NUMBER OF CHILDREN IN PROJECT REPLICATION MODELS

Replication Site	Pre-Speech and Feeding				Language Stimulation				Receiving Both Language Stim. and Pre-Speech and Feeding				Number of Parents or Families In Parent Part.	Number of Children Receiving Expanded Services since Replication Initiated or since 7/1/78			
	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs		0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs
The Rehabilitation Center Portsmouth, N. H.	28	60	2	0	28	40	2	0	28	40	2	0	156	No answer provided			
Pioneer Center McHenry, Illinois	23	5	0	3	20	6	4	1	20	6	4	1	101	80	9	7	5
Sally Potter School Mundelein, Illinois	0	3	6	1	7	11	4	0	0	3	3	0	NAP	0	3	6	1
Highland Elementary School Appleton, Wisconsin	1	8	3	0	3	13	6	8	1	5	2	0	80	No answer provided			
Sheboygan Area School Dist. Sheboygan, Wisconsin	0	1	4	7	3	1	4	7	0	1	4	7	16	3	1	4	0
Newark Developmental Center Newark, New York	6	2	8	29	0	0	0	0	0	0	0	0	1	No answer provided			
Children's Orthpedic Center Seattle, Washington	30	10	5	10	10	5	5	5	10	5	5	5	4	15	0	0	0
V.I.P. Project Bridgeview School St. Paul, Minnesota	10	10	30	13	10	10	30	13	10	10	30	13	63	10	5	5	4
Berrien County Intermediate School District																	
Stump School	5	6	0	3	5	10	0	0	5	6	0	3	44	4	8	0	0
Blossomland Berrien Springs, Michigan	4	5	0	20	0	0	0	0	0	0	0	0	NAP	15	0	0	0
Agency for Infant Development Kentfield, California	40	0	0	0	40	0	0	0	40	0	0	0	40	No answer provided			

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NAP= No Answer Provided

NUMBER OF CHILDREN IN PROJECT REPLICATION MODELS

Replication Site	Pre-Speech and Feeding				Language Stimulation				Receiving Both Language Stim. and Pre-Speech and Feeding				Number of Parents or Families In Parent Part.	Number of Children Receiving Expanded Services since Replication Initiated or since 7/1/78			
	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs		0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs
Detroit Institute for Children Detroit, Michigan	20	8	2	2	8	20	0	0	20	8	0	0	0	15	5	0	0
Ada Wilson Hospital Corpus Christi, Texas	27	18	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Rita's Medical Center Lima, Ohio	46	2	1	3	57	19	2	0	46	2	1	0	180	225	37	8	4
Children's Hosp. Med. Ctr. Akron, Ohio	260	0	0	0	260	0	0	0	260	0	0	0	260	260	0	0	0
Waukesha County Special Education																	
Fairview South	9	1	3	2	0	1	3	2	0	1	3	2	0	0	0	0	0
Hillcrest	0	6	0	0	0	6	0	0	0	6	0	0	0	0	0	0	0
Orchard Lane Waukesha, Wisconsin	0	1	3	1	0	1	1	1	0	1	1	1	0	0	0	0	0
Northern Trails Area Education Agency Mason City, Iowa	10	5	0	0	0	0	0	0	0	0	0	0	10	No answer provided			
Prince George's County Public Schools Glenn Dale, Maryland	29	0	0	0	0	0	0	0	0	0	0	0	0	50	2	0	0
Great Falls Public Schools																	
Pre-school	0	21	6	0	0	15	5	0	0	15	5	0	18	0	28	11	0
Multi-handicapped Great Falls, Montana	0	3	8	10	0	2	4	5	0	2	4	5	4	0	0	5	5

NAP= No Answer Provided

NUMBER OF CHILDREN IN PROJECT REPLICATION MODELS

Replication Site	Pre-Speech and Feeding				Language Stimulation				Receiving Both Language Stim. and Pre-Speech and Feeding				Number of Parents or Families In Parent Part.	Number of Children Receiving Expanded Services since Replication Initiated or since 7/1/78			
	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs		0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs
Willett Easter Seal Oak Park, Illinois	6	2	0	0	11	9	3	0	6	2	0	0	23	21	14	4	0
Mt. Carmel Children's Habilitation Center Detroit, Michigan	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0
Ann Sullivan School Green Bay, Wisconsin	2	6	1	0	5	10	7	0	2	6	1	0	14	0	0	0	0
Lakeland School of Walworth County Elkhorn, Wisconsin	3	5	1	0	0	0	0	0	0	0	0	0	NAP	No answer provided			
Beaverton School Dist. #48 Beaverton, Oregon	10	10	0	0	10	10	0	0	10	10	0	0	20	10	10	0	0
Woodhaven Center * Philadelphia, PA	0	0	16	0	0	0	75	25	0	0	9	0	10	No answer provided			
Manitoba Orthopedic School Milwaukee, Wisconsin	0	6	13	5	0	0	0	0	0	0	0	0	10	0	6	13	5
Wadewitz School Racine, Wisconsin	2	7	4	2	1	2	0	0	1	2	0	0	18	3	7	3	2
Como Elementary School Infant School St. Paul, Minnesota	8 0	4 3	0 3	0 4	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Misericordia Home Chicago, Illinois	20	25	55	25	12	7	20	10	No answer provided				0	No answer provided			

* No Current Program Information Sheet received. Figures based upon information obtained during follow-up site visit.

NAP= No Answer Provided

NUMBER OF CHILDREN IN PROJECT REPLICATION MODELS

Replication Site	Pre-Speech and Feeding				Language Stimulation				Receiving Both Language Stim. and Pre-Speech and Feeding				Number of Parents or Families In Parent Part.	Number of Children Receiving Expanded Services since Replication Initiated or since 8/1/78			
	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs		0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs
Center for Inservice Training & Program Devel. University of Washington Seattle, Washington	60	200	200	400	50	50	50	100	50	50	50	100	0	No answer provided			
Children's Development Ctr Rockford, Illinois	12	5	1	1	No answer provided				No answer provided				12	No answer provided			
Keystone Area Education Agency																	
Sullivan	1	6	15	13	1	4	0	0	1	4	0	0	0	No answer provided			
Central	10	5	0	2	0	0	0	0	0	0	0	0	0	No answer provided			
Southern	7	4	2	4	0	2	0	0	2	2	0	0	4	No answer provided			
Decorah	5	0	1	0	0	5	0	0	0	0	0	0	5	No answer provided			
Dubuque, Iowa																	
Area Education Agency 12 * Sioux City, Iowa	14	0	0	0	14	0	0	0	14	0	0	0	14	14	0	0	0
Racine County Opportunity Center Racine, Wisconsin	30	0	0	0	15	0	0	0	15	0	0	0	45	No answer provided			
Macomb Intermediate * School District Mt. Clemens, Michigan	30	0	0	0	30	0	0	0	30	0	0	0	30	No answer provided			
St. Francis Children's Activity & Achievement Ctr. Milwaukee, Wisconsin	12	4	0	0	25	20	0	0	0	0	0	0	37	No answer provided			
Project RISE University, Alabama	3	1	0	0	0	0	0	0	0	0	0	0	5	2	1	0	0

* No Current Program Information Sheet received. Figures based upon information obtained during follow-up site visit.

NAP= No Answer Provided

NUMBER OF CHILDREN IN PROJECT REPLICATION MODELS

Replication Site	Pre-Speech and Feeding				Language Stimulation				Receiving Both Language Stim. and Pre-Speech and Feeding				Number of Parents or Families In Parent Part.	Number of Children Receiving Expanded Services since Replication Initiated or since 7/1/78			
	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs	0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs		0-3 yrs	4-6 yrs	7-10 yrs	above 10 yrs
St. Catherine's Hospital Kenosha, Wisconsin	4	0	0	0	7	0	0	0	4	0	0	0	10	55	0	0	0
Gilchrist Marchman Chicago, Illinois	8	0	0	0	8	0	0	0	8	0	0	0	8	No answer provided			
Nat G. Polinsky Rehabilitation Center Duluth, Minnesota	17	0	0	0	17	0	0	0	17	0	0	0	17	0	0	0	0
Havre Public Schools Havre, Montana	0	1	5	2	0	3	7	16	0	1	5	2	0	0	3	7	16
Western Montana - Comprehensive Dev. Ctr. Missoula, Montan	5	0	0	0	5	0	0	0	5	0	0	0	20	5	0	0	0
Emerson School Bozeman, Montana	0	5	1	3	0	4	0	2	0	4	0	2	2	No answer provided			
Coulee Region Infant Developmental Center LaCrosse, Wisconsin	3	0	0	0	0	0	0	0	0	0	0	0	3	No answer provided			
Irving School West Allis, Wisconsin	1	3	0	2	0	0	0	0	1	3	0	0	0	0	0	0	0
TOTALS	1235	550	421	576	1023	306	230	206	882	218	152	150	1790	837	199	88	52

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REPLICATION SITES AND STAFF

*Replication Team members without eight-week NDT or C.P. Project six-day workshop training

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Curative Rehabilitation Center 9001 W. Watertown Plank Road Milwaukee, Wisconsin 53226 Manager of Children's Programs: Cecelia Cull Project Coordinator: Rona Alexander Linda Kliebhan 414/259-1414	Jane Erickson (3/77) (NDT) Betty Zientara (9/78) Chris Marvin (NDT) Joan Wojtal (NDT) Rona Alexander (NDT) Cathy Shriver (2/19/79)	Ruth Painter (NDT) Sue Schumacher (NDT) Barbara Cupps (NDT) Betty Means (11/77) (NDT) Theresa Trostmiller (NDT) Betty Sheehan (1/78)	Lisa Grimm (NDT) Bonnie Cesar (6/76) (NDT) Sally Swetnam (NDT)	Cecelia Cull (11/77) Bev Schilz (2/19/79)		State Federal United Way Family Ins. Donations
Crippled Children's Division University of Oregon Health Sciences Center P.O. Box 574 Portland, Oregon 97207 Director: Victor Menashe, M.D. Project Coordinator: Merry Meek, M.S. 503/225-8356 6/73	Merry Meek (6/73) (NDT-76) Jill Kirkpatrick (10/78)	Elaine Ruys (NDT-77) Sue Hanks* Nancy Wicher (2/5/79) Cindy Bruce (6/73) Pat Morris (NDT-73) (6/73) Chris Trachtenbarg* Marilyn Rich*	Sue Wright (6/73) Emily Smith (NDT-74) Barbara Despain-Oadlaug (NDT) Anita Guzman (10/78) Cathy Lamm* Elizabeth Young (5/78)	Christi Barkost (2/5/79)		State SSI Mental Health Family insurance
Crippled Children's Division Center on Human Development Clinical Services Building 901 E. 18th Street Eugene, Oregon 97403 Director: Robert Schwarz, M.D. Project Coordinator: Linda Hanrahan 503/686-3575 6/73	Palmer Curtis* Linda Hanrahan*	Jan Gallenstein*				Crippled Children's Div. SSI Mental Health

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
McGrath Special Education Center Wayne Westland Community Schools 36075 Currier Street Wayne, Michigan 48184 Director: Suzanne McBride Project Coordinator: Michael Gelletly 313/595-2620 6/73	Michael Gelletly (6/73)	Liz Estis (NDT-75) Nancy Zakar*	Sandy Legg* Cindy Oleszkowicz*	Kathy McConlogue* Carol Alsheimer*		State County
St. Paul Rehabilitation Center 319 Eagle Street St. Paul, Minnesota 55102 Director: Ronald Anderson Project Coordinator: Terry Bergstrom 612/227-8471 6/73	Marlene Shoenberg (6/76) Bernie Garon (5/78) Cindy Toppin*	Linda Kennedy* Ann Ring* Colleen Stone (5/78) Sharon Bakken (2/19/79)	Terry Bergstrom (10/73) Jane Adams* Sue Hietala*	Mary Adrian*	Ann McGlynn* (COTA) Marlys Johnson*	United Way
Wausau Hospital Center 333 Pine Ridge Road Wausau, Wisconsin 54401 Director: Theresa Sack Project Coordinator: Theresa Sack 715/845-5262 6/73			Sr. Francine Kosednar (10/73) (NDT)	Anna Gresch (5/78)	Lena Seidel* (S.W.)	Private Ins. MA Elks

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Cerebral Palsy Inc. 1066 Mather Street Green Bay, Wisconsin 54303 Director: Edward Connors Project Coordinator: June McCotter 414/494-5627 11/73			June McCotter (11/73)			Telethon Philanthropic Organizations
United Cerebral Palsy Children's Hospital Medical Center Pavilion Building Elland & Bethesda Avenues Cincinnati, Ohio 45229 Director: Clifford Backscheider Project Coordinator: Cheryl Marguilies 513/559-4601 2/74	Cheryl Margulies*	Susan Brennan (NDT-75)	Cindy Hayes*	Charis Kabat*	Martha Stueve* (S.W.)	United Way 3rd Party billing Tuition
Easter Seal Society and Memorial Hospital Infant Treatment Program 2015 Lakeview Avenue St. Joseph, Michigan 49085 Director: Maria Depuydt Project Coordinator: Maxine Simonds 616/983-3981 6/74	Sara Maxam*	Winnifred Zimmerman (6/74) (NDT-75)			Maxine Simonds* R.N. Lilly Curry* (Aide) Janet Gay*	Easter Seal Riverwood Mental Health Center

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Jayne Shover Rehabilitation Center Elgin Easter Seal Assoc. for the Crippled, Inc. 799 S. McLean Boulevard Elgin, Illinois 60201 Director: Margaret Muetterties Project Coordinator: Myra Becker 312/742-3264 6/74	Myra Becker (6/74) Cheryl Friebus (6/76) Barb Buckham (NDT-76) Laura Klor (1/79) Judy Bugh*	Martine O'Malley (5/78) Myriam Perez (5/78) Sheila Reiman*	Lynn Marshall* Anita Niehaus (1/79) Nancy Gramse (1/79) Jan Lundgren*	Debbie Allen*	Marlene Shales R.N. (11/74) Marcia Brumm*	Dept. of Mental Health Fees Fund Drives 2671
DuPage Easter Seal Treatment Ctr. 706 E. Park Boulevard Villa Park, Illinois 60181 Director: Roger Nyberg Project Coordinator: Judy Geen 312/832-2270 6/74	Judy Geen (3/74) (NDT-74) Ann Guild (DuPage Workshop) (11/74) (NDT-75) Rita Lowry*	Kathe Monley (NDT-74) Elaine Sianis (NDT-76) Chris Weber (NDT-75) Rosalee Dold (NDT-69) Karen Kestel (NDT-79)	Joan Senese (11/77) Sharon Serinsky*	Caroline Uchida (6/74) (DuPage workshop)		Insurance
The Rehabilitation Center, Inc. Route #1 Bypass Box 901 Portsmouth, N.H. 03801 Director: Project Coordinator: Karen Stidsen 603/436-5716 6/10/74	Karen Romanowski* Glicka Glasserman* Anna Bulger* Carol Zimmerman*	Mary Overbogh* Barbara Czeb* Janet Qugley*		Karen Stidsen (1977) Lucy Dockham (1977) Dory Sterndale* Debbie Munsey* (Teach)		SSI Title I Title XX Grant Medicaid Tuition

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Pioneer Center for the Exceptional 5005 W. McCullom Lake Road McHenry, Illinois 60050 Director: Robert Lambourn Project Coordinator: Thomas Gollan 815/344-1219 6/74	Cheryl Urban-Miller* Barbara Berg*	Sandy Barcus*		Kris Weisenberger (10/76) Mary Walczynski* Carol Foreman*	Ruth Drye, R.N. (6/74) Janice Bartman, R.N.*	State Mental Health County Mental Health Donations
Special Education-District of Lake County Physically Handicapped Program Sally Potter School 330 N. California Mundelein, Illinois 60060 Director: Larry Vuillemot Project Coordinator: Alan Blum 312/566-9180 6/74	Debbie Yepsen (4/78)	Cheryl Blaz (4/78) Paula Cox* Nancy Howe*	Dyann Mills (4/78) Cynthia Creighton* Sue Shiraga*		Betty Broome* (Para-prof.)	Federal State Local
Highland Elementary School Rolland Nock Orthopedic Dept. 2037 Elinor Street Appleton, Wisconsin 54911 Director: John Freehill Project Coordinator: Betsy Melzer 414/735-6253 3/75	Ann Powers (10/76)	Donna Kastner (3/75) Frank Lofgren (11/75) Betsy Melzer (6/76)	Nancy Gudmundson (11/78)	Fern Mead* Pam Klinzing (9/78)		State Federal

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Sheboygan Area School District James Madison School - Therapy Center 2302 David Avenue Sheboygan, Wisconsin 53081 Director: Gerald Lewis Project Coordinator: Ann Kleckner 414/459-3590 10/75	Ann Kleckner (11/77)	Pam Shrank (11/78) Rosallyn Passehl	Carleen Schloemer (1/76) Brenda Springhettl* Jonell Shoemaker*	Wendy Seidlitz* Marlys Eidsvoog* Debbie Tarnowski*		Local State
Newark Developmental Center 703 East Maple Avenue Newark, New York 14513 Director: Charles S. Soper Project Coordinator: Nopaval Kayankarnnavy, M.D. 315/331-1700 12/12/75	Barbara Campbell (1/76) NDT-78)	J. Morehouse* (Assistant)	Judy Moss (1/76) B. Bump* E. Indick* V. Pesarek* V. Schiltz* (Assistants)	Cathy DeHimer* Sheila Homerway* Kathy Ellwell* R. Tokar* D. Contario* G. Kruger* P. Sheehee* Cross* Hinman*	Neva DeWitt, RN (2/19/79) Elva Jurgens RN (2/19/79) J. Schutt* O. Orbaker* J. Casteel* J. Beeman* F. Phillips* R. Ellis* C. Jackson* M. Everts* E. Wheeler* Carol Sargent* Alice Bennet* Claudia Sims* (Aides)	State
Children's Orthopedic Hospital 4800 Sand Point Way N.E. Seattle, Washington 98105 Director: Carl O. McGrath Jack Dockter, M.D. Project Coordinator: Marijane Johnsen 206/634-5035 1/76	Marijane Johnsen (1/76) Alice Richmond- Neal*	Mary Kestaloot- Sutton (NDT)	Karen Donahue*		Peggy Pomeroy (1/76)	

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Bridgeview School V.I.P. Project 360 Colborne Street St. Paul, Minnesota 55102 Director: Charles Burback, Prin. Project Coordinator: Marge Smith 612/298-5986 10/76	Barbara Wollak (10/76) (NDT-78) Sharon Duranty (5/78) (NDT-78)	Barbara Jirik (10/76) (NDT-78) Marcia Hawkins (5/78)	Kathy Zawislak (10/76) (NDT-78)	Teresa Mathews (5/78) Marge Smith		Federal State Local
Berrien County Intermediate School District 711 St. Joseph Avenue Berrien Springs, Michigan 49103						Federal State Local
I. Blossomland Learning Center Director: Mary Wilhelmson Project Coordinator: Barb Farnan 616/473-2600	Barb Farnan (11/74) Diane Lewis* Ann Keurgan*		Wally Martin* Ann Porier*	Ann Barker Rose Aiken* Greg Borden* Sandy Reiter*		
II. Stump School Director: Jerry Reiman Project Coordinator: Erma Mitchel 616/471-7725	Jane Willmeng (NDT-6/76)		Debbie Ball*	Melinda Peterson* James Dewey* Nancy Porter*	Marie Sorce* Carol Hauch* (Para-profs.)	

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Agency for Infant Development 1030 Sir Francis Drake Blvd. Kentfield, California 94904 Director: M. Susan Collins Project Coordinator: M. Susan Collins 415/456-2184 1/77		Kathy Petersen (3/77) (NDT-77)	Miriam Lowry (NDT-68)	M. Susan Collins (3/77) Linda Godfrey*	Francis Knudtson* (psych)	Community Mental Health Sliding scale fees
Detroit Institute for Children 5447 Woodward Avenue Detroit, Michigan 48202 Director: Terrence D. Vaughan Project Coordinator: Lyn Goldberg 313/832-1100 1/77	Lyn Goldberg (1/77) Mimi Block*	Rita Chin (NDT-76) Bridget Gasior* Susan Cappocia*	Joyce Gordon* Lezlie Adler (NDT) Linda Stelzel* Moira Dahlin* Barbara Silbershine (NDT)	Sandra Feuer* Billie Edwards*		Div. of Crippled Child. Private School system
Ada Wilson Hospital of Physical Medicine and Rehabilitation 3511 S. Alameda Corpus Christi, Texas 78411 Director: John Dean Project Coordinator: Pam Villaume 514/853-9977 1i 1/77	Cindy Holder-Kroeger (1/77) A.J. Shafer (5/78) Susan Escalante (2/19/79) Sandy*	Pam Villaume (1/77) Mary McFarlane*	Kathy Hall (5/78) Jackie Gove*	Elizabeth McClendon (2/19/79)		State CCD Medicaid School District Grants Hospital absorbs Part of Cost

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
St. Rita's Medical Center 730 W. Market Avenue Lima, Ohio 45801 Director: Lenore Edgington Project Coordinator: Kristen Birkmeier 419/227-3361 Ext. 396 3/77	Joyce Pugh (3/77)	Kristen Birkmeier (10/73)	Tess Miley (2/19/79)	Jackie Ogle (3/77) Robyn Whetstone*	Marcia Nienberg* (S.W.)	Private Ins. BCCS Easter Seal ADC Private Pay
Children's Hospital Medical Center of Akron - Infant Therapy 281 Locust Street Akron, Ohio 44308 Director: Roger Sherman Project Coordinator: Carolee Rafn 216/379-8268 9/74 - 3/77	Karen Dedinsky (3/77)	Kathleen Vogel*	Bonnie Brezel*	Linda Emore (3/77)	Katherine Kapalko* (Therapy Asst.)	Private Pay Hosp. Ins. BCCS Medicaid
Northern Trails Area Education Agency 225 - 2nd Street S.E. Mason City, Iowa Director: Harold Webb Project Coordinator: Eve Faes 515/423-9083 10/77	Pam Severson*	Chris McPherson*	Eve Faes (4/76) (NDT-76)	Jesse Lee Friedan* Jill Davis* Pam Goff* Diane Sondrol*	Al Hodapp* (Psych.)	94-142 Federal

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Waukesha County Special Education Office 500 Riverview Avenue Waukesha, Wisconsin 53151 Director: Douglas J. McGarvie Project Coordinator: Brent C. Odell						
I. Hillcrest	Diane Ott (11/78)	Betty Harrmann (11/78) Cathy LaForme (11/78)	Beverly Boothby*	Wendy Harmon (11/78)	Aides	County State Federal
II. Fairview South	Shawn Uttech (11/78)	Virginia Jurgen (11/78)	Terri Duckett (11/78)	Karen Hemple*	Aides	Same
III. Orchard Lane	Barbara Strom (11/77)	Mary Jo Miedaner (11/78)	Jane Greenlee*	Joan Brynildson (11/78)	Aides	Same
414/544-8108 10/77						
Prince George's County Public Schools Early Identification Program 6700 Glenn Dale Road Glenn Dale, Maryland 20769 Director: June Gallagher Project Coordinator: June Gallagher 301/262-6122 10/77	Patricia Hayes (4/78) Diane Petersen (5/78)	Linda Hardesty (1/78) (NDT-77) Donna Klem (5/78) (NDT-77)	Mary Sue Lentz*	June Gallagher (1/78) Virginia McClure (4/78) Catherine Welch (4/78) Linda Wren (4/78) Jim Helm (1/79) Mary Goff* Clarinda Poole*		Local State Federal

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Great Falls Public Schools Special Education Center 801 - 2nd Avenue, North Great Falls, Montana 59401 Director: Dr. Ray Beck Project Coordinator: Dan Gregier						
I. Multi-Handicapped Class Program	Marilyn Brasch (11/77) Angela Knapstad (2/5/79)	Charlene Dalbec (5/10/79)	Jeanette Schwartz (11/77)	Laurie Pipinich (2/5/79) Pat Berney (2/5/79) Bill Mehan* (Teacher) Kathy Olson* Sigi Weeks* (Teach. Assts.)	Dan Gregier (11/77) (Home Trainer) Connie Beck (2/5/79) (Home Trainer)	
II. Pre-School Program	Betsy Ellis (2/5/79) Sandy Meech (2/5/79)	Cindy Sisson*		Sharon Halvorson* Ann Vannatha* Debbie Rojeski* Marge Duran* (Teachers) Mrs. C. Brown* Kathy Blair* (Teach. Assts.)	Betty Lehrman* (Aide)	
406/791-2270 10/77						
Easter Seal Society - Willett Center 120 W. Madison Street Oak Park, Illinois 60302 Director: Betty Johnson Project Coordinator: Betty Johnson	Mary O'Brien* Joan Harmon*	Nanci Curtis*	Sandra Huffstutter (1/78) Connie Gibson*			
312/261-8179 1/78						

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Mt. Carmel Mercy Hospital Children's Habilitation Center 6071 West Outer Drive Detroit, Michigan 48235 Director: Project Coordinator: Linda Slanina 313/864-5400 1/78	Rosemary Smithyman*	Linda Slanina (1/78)				Michigan Crippled Child. Fund
Ann Sullivan School 1567 Deckner Avenue Green Bay, Wisconsin 54302 Director: Elaine Martin Project Coordinator: Jean Montague 414/497-3933 1/78	Jean Montague (1/79)	Sheila Beams (1/78) Libbie Miller* Pat Blakeslee*	Jane Allen*	Kay Summerfield (1/79)	Mickey Tobin* Marie Hamernik* (Aides)	
Lakeland School of Walworth Cty. P.O. Box 88 Elkhorn, Wisconsin 53121 Director: Corwin Krugh Project Coordinator: Corwin Krugh 414/723-5341 1/78	Roxanne Gierhart (11/78)	Marge Rollay (1/78) (NDT)		Bonnie Medley (1/78)	Jean Robers (11/78) Alice Smith* (Para-Prof.)	L.E.A. State

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Beaverton School District #48 P.O. Box 200 16550 S.W. Merlo Road Beaverton, Oregon 97005 Director: Doris Rosen Project Coordinator: Sue Busch 503/649-0450 10/76	Susan Busch (10/76)	Sara Pederson (NDT) (10/76) Timmie Jones*		Regina Helin (10/76)		Title I-H BEH HCEEP
Woodhaven Center 2900 Southampton Road Philadelphia, Pennsylvania 19154 Director: Joseph Colombatto Project Director: Gundega Berzins 215/671-5137 3/77	Paula Gallivan (10/79)		Lynn Weinberger (10/79) Joseph Flynn (10/79)			
Manitoba Orthopedic School 4040 W. Forest Home Avenue Milwaukee, Wisconsin 53215 Director: Frank Szymanski Project Coordinator: Jeannette Raychel 414/645-8035	Nancy Schmitz (NDT) Jeannette Raychel (9/78) Alix Groves*	Mary Miskov (9/78)	Bernie Bates (9/78) Regi Haebig (NDT) Mary Williamson*	Tess Wolfmeyer (9/78) Marie Young* (Teach) Betty Johnson*	Barbara Runge* (Psych)	State Local

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Wadewitz School 2700 Yout Street Racine, Wisconsin 53404 Director: David Sweeney, Prin. Project Coordinator: Rita Applebaum 414/637-5623 4/78	Rita Applebaum (4/78)	Collette Dana (4/78)		Cathy Christensen (4/78)		State Local
Como Elementary School 780 W. Wheelock Parkway St. Paul, Minnesota 55117 Director: Mr. Jim Geary Project Coordinator: Phyllis Basford Pat Pearman I. School Program II. Infant Program 612/489-8035 5/78	Pat Pearman (5/78) Rae Burrill* Diane Johnston (1/79) Gail Richerson*	Phyllis Basford (5/78) Jan Flint* Holly Hobbs 91/79) (NDT-78) Alice Warren*	Biz Taylor (5/78) Nancy Larson* Barbara Woodward (1/79) Kris Tuma*	Susan Benolkin* Rosey McQuillan* (Teachers)	Pam Larson* Sue Ferguson*	State Local
Misericordia Home 2916 W. 47th Street Chicago, Illinois 60632 Director: Sr. Rosemary Connelly Project Coordinator: Sr. Betty Flynn 312/254-9595 3/75	Barb Chwierut*	Pam Thompson (5/78)		Nancy Cole* Diane Ryan (10/79) Linda Ronchi*	Sr. Betty Flynn*	Public Aid Dept. of Mental Health Scholl Fdtn.

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Center for Inservice Training and Program Development University District Building Suite 515, JD-05 University of Washington Seattle, Washington 98195 Director: Dr. Norris G. Haring Project Coordinator: Susan Soltman Janet Down 206/545-1991 1/76		Deborah Brady	Janet Down (2/5/79)	Susan Soltman CDS Valerie Lynch* Carole Bartolini* Gordy Linse*	Claudia Whitaker* R.N. Louise Carnachan* S.W.	
Children's Development Center 650 N. Main Rockford, Illinois 61103 Director: Shirley K. Frank Project Coordinator: Lee Guentzel 815/965-6745 9/78	Christine Aupperle (9/78) Lee Guentzel (11/78)	Helen Wales (9/78) Judith Eldridge (11/78) Jan Geihsler (11/78)	Joan Sogard (9/78) Lynn Mitchell (11/78)	Sandy Kindt* Nancee Luce* Ann Greiling*	Shirley Oster* (Parent-Infant Educator)	State United Way Fees Gifts
Area Education Agency 12 1520 Morningside Avenue Sioux City, Iowa 51106 Director: Project Coordinator: Nina Carran 712/279-6440 9/78	Terri Porter (9/79)	Ann Clausen (2/79)		Linda Cron (9/79)		

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Keystone Area Education Agency R.R. 1 - Box 330A Elkader, Iowa 52043 Director: Eugene C. Pratt Project Coordinator: Raymond DeNeve						
I. Central Team - Elkader 319/245-1480	Juliann Cripe (9/78					Title VI
II. Sullivan	Dan Larmore (10/78)		Chris Matthews (10/78)			State
III. Southern - Dubuque 319/588-0538	Jim Gorman (10/78) Addy Gard (9/78) Sue Hattel* Sue Reisinger* Donna Stehn*	Ann Bennett (10/78)	Meridith Hirsch*			Federal 92.142
IV. Decorah	Dorothy McKee (10/78)	Gail Johnson (10/78)				
Racine County Opportunity Center 1032 Grand Avenue Racine, Wisconsin 53403 Director: Tom Dunbar Project Coordinator: Mary Schlafke 414/637-1194 9/78 57	Diana Mieczkowski (9/78)	Mary Clary*	Mary Schlafke (9/78)	Honey Marshall* Debbie Johnson* Joanne Russell*	Donna Dixon* Sue Henken* (Home Trainers) P. Parker* M. Mazzie* R. Hunzinger*	Title I Racine Cty. Human Services 58

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Macomb Intermediate School Dist. 44001 Garfield Road Mt. Clemens, Michigan 48044 Director: Project Coordinator: 313/286-8800 10/78	Dale Kitchen (10/79) Karen Formancyck (10/79)	Karen Kieling (10/79)	Don Bannasch (10/79)	Melody Perrin (10/79)		
St. Francis Children's Activity and Achievement Center 6700 N. Port Washington Road Milwaukee, Wisconsin 53217 Director: Sr. Joanne Marie Kliebhan Project Coordinator: Maureen Carroll 414/351-0450 10/78	Maureen Carroll (10/78) M.M. Winchester (2/19/79) Joyce King*			Barbara Wagner (10/78) Naomi Soifer (10/78)		Combined Community Services Board Tuition Donations
Rural Infant Stimulation Environment (RISE) P.O. Box 2592 University, Alabama 35486 Director: Dr. Loreta Holder Project Coordinator: Terri Gartenberg 205/348-7340-7931 1/79	Terri Gartenberg (1/79)		Betty Wells (2/19/79)	Melissa McCarty (1/79) Martha Cook* Bobbi Jenkins* Ann Stark*	Glenda Rice* Jahala Campbell* Rosa Summerville* Ann Stark* (Aides)	State

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
St. Catherine's Hospital Early Age Program 3556 - 7th Avenue Kenosha, Wisconsin 53140 Director: Marian Krumberger Project Coordinator: Mary Ann Maiers 414/654-7714 1/79	Mary Ann Maiers (1/79)	Ed Meyer (1/79) Kathy Noe* Karn Flesner*	Jean Cuta (1/79)	Marion Krumberger (2/19/79) Sue Neusnifer* Sherry Brooks*		Private Ins. Title I BCC
Gilchrist Marchman Rehabilitation Center 2345 W. North Avenue Chicago, Illinois 60647 Director: Anne K. McCarthy Project Coordinator: Anne K. McCarthy 312/276-4000 1/79	Elaine Shufler (1/79) Judy Hullings*	Ann McCarthy (1/79) Nancy Curtis*	Patricia Parmet (1/79) Diane Twickler*		Susan Brauer* (S.W.)	Title XX DMH/DD Grant Easter Seal
Nat G. Polinsky Rehabilitation Center 530 E. Second Street Duluth, Minnesota 55805 Director: Mary Van Gordon Project Coordinator: Karen McLennan 218/727-5083 1/79	Karen McLennan (1/79) Mary Spehar* Greg Ensberg	Robbie Essling (NDT) Mary Jo Drilling*	Anne Carlson*	Rhoda Dizard*	Chris Olson (Family Coun- selor)	Insurance Medical Asst. Grants CCS Board of Ed.

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Havre Public School D-16 Box 791 Havre, Montana 59501 Director: Dr. Ray Peck Project Coordinator: Deborah Atkins 405/265-4356 2/5/79				Chris Maristuen (2/5/79) Pat Gillen (2/5/79)		Local State Federal
Western Montana - Comprehensive Developmental Center 402 South 4th West Missoula, Montana 59801 Director: Mike Morris Project Coordinator: Ron Holder 406/549-6413 2/5/79	Ron Holder (2/5/79)	Carrie Gajdosik (2/5/79)	Jan Rober (2/5/79)		Bob Burmood (Home Trainer) (2/5/79)	Developmental Disabilities
Emerson School Box 520 Bozeman, Montana 59715 Director: Joyce Hunes Project Coordinator: Jim Hamilton 406/587-1776 or 587-3155 2/5/79	Mary Price (2/5/79)		Patricia Joyce (2/5/79)	Jim Hamilton (2/5/79)		State Local

AGENCY	SPEECH	P.T.	O.T.	SPEC. ED.	NURSING & OTHER	FUNDING SOURCES
Coulee Region Infant Developmental Center Stoffell Hall - 15th & King LaCrosse, Wisconsin 54601 Director: Emmeline Hagen Project Coordinator: Emmeline Hagen 608/782-8210 2/19/79			Charlene Krocker (2/19/79)			Unified Boards Title I United Way
Irving School 10230 W. Grant Street West Allis, Wisconsin 53227 Director: Robert Buehler Project Coordinator: Dr. Chester Piskula 414/545-7910 2/19/79	Ruth Barbour (2/19/79	Denise Witowski (2/19/79)	Cindy Vitali (2/19/79) Peggy Dunnigan*			Taxes State Aid

APPENDIX B

DISSEMINATION INFORMATION

1. Agencies/Persons Participating in Project Lectures, Consultations, and Presentations

2. Agencies/Persons Receiving Project Program Materials

B.1. Agencies/Persons Participating in Lectures, Consultations, and Presentations

AGENCY	ACTIVITY	DATE
Wisconsin Early Childhood: Exceptional Educational Needs Poly Institute Stevens Point, Wisconsin	Awareness Lecture	July 11-12, 1978
N.D.N. Conference Gatlinburg, Tennessee	Awareness Lecture	July 19-20, 1978
Marshall Public Schools Marshall, Minnesota	Awareness Lecture	September 5-6, 1978
Moorhead Public School Moorhead, Minnesota	Awareness Lecture	September 7, 1978
American Academy of Cerebral Palsy and Developmental Medicine Toronto, Canada	Discussion	September 25-28, 1978
Milwaukee Teacher's Education Association Milwaukee, Wisconsin	1/2 day Lecture	November 2, 1978
American Speech and Hearing Association San Francisco, California	Short Course by Dr. Suzanne E. Morris	November 21, 1978
Blythedale Children's Hospital Valhalla, New York	Private 2-day Lecture Pre-Speech and Feeding	November 10-11, 1978
Curative Rehabilitation Center Wauwatosa, Wisconsin	Private 2-day Workshop	February 3-4, 1979
Curative Rehabilitation Center Wauwatosa, Wisconsin	Inservice Lectures	January 23; February 27; March 6, 20; April 10, April 24, 1979
Eastern Illinois Speech and Hearing Association Champaign, Illinois	1-day Private Workshop	March 31, 1979

AGENCY	ACTIVITY	DATE
Stevens Point Public Schools Stevens, Point, Wisconsin	2-day Private Workshop Pre-Speech and Feeding	April 5-6, 1979
Ada Wilson School Corpus Christi, Texas	2-hour Lecture on Team Approach	April 23, 1979
Congress of Exceptional Children Dallas, Texas	Awareness Lecture	April 26, 1979
Wisconsin Occupational Therapy Association Milwaukee, Wisconsin	1-day Workshop Pre-Speech and Feeding	May 11-12, 1979
5 ST Graduate Students Marquette University University of Wisconsin - Milwaukee	Demonstrations and Observation	July 1, 1978 - June 30, 1979
6 OT Students University of Wisconsin - Milwaukee Temple University Western Michigan University University of Wisconsin - Madison	Demonstrations and Observation	July 5, 1978 - June 30, 1979
15 PT Students Marquette University University of Nebraska University of Wisconsin - Milwaukee	Demonstrations and Observation	July 1, 1978 - June 30, 1979
1 Psychology Student University of Wisconsin - Milwaukee	Demonstrations and Observation	July 1, 1978 - June 30, 1979
4 Child Development Students Cardinal Stritch College Milwaukee Area Technical College	Demonstrations and Observation	July 1, 1978 - June 30, 1979
2 Social Work Students University of Wisconsin - Milwaukee Mt. Mary College	Demonstrations and Observation	January - May, 1979

AGENCY	ACTIVITY	DATE
8 Pediatric Residents 5 Medical Students Medical College of Wisconsin University of Wisconsin Medical School - Madison	Demonstrations and Observation	July 1, 1978 -
Wisconsin Physical Therapy Association Green Bay, Wisconsin	1-day Private Workshop	May 6, 1979
N.D.T. 8-week Course Curative Rehabilitation Center Wauwatosa, Wisconsin 53226	8-week N.D.T. Course	June, 1979 - August, 1979

B.2.a. Agencies/Persons Receiving Project Replication Packet

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State of Delaware
Department of Public Instruction
The Townsend Building
P.O. Box 1402
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APPENDIX C

WORKSHOPS

1. Fundamental Guidelines for Pre-Speech and Language Programming Workshop Participants (6-day Workshop)

2. Pre-Speech Assessment Scale Workshop Participants (3-day Workshop)

3. Reliability Study/Problem Solving Workshop Participants (2-day Workshop)

FUNDAMENTAL GUIDELINES IN
PRE-SPEECH AND LANGUAGE PROGRAMMING
WORKSHOP

September 11-16, 1978

PARTICIPANT'S LIST

Juliann Cripe (ST) Cathy Knickerbocker (PT) Addy Gard (ST)	Keystone Area Education Agency R.R. 1 - Box 330A Elkader, Iowa 52043
Mary Schlafke (OT) Diana Mieczkowski (ST) Sue Kinosian (PT)	Racine County Opportunity Center 1032 Grand Avenue Racine, Wisconsin 53403
Christine Aupperle (ST) Joan Sogard (OT) Helen Wales (PT)	Children's Development Center 650 North Main Street Rockford, Illinois 61103
Betty Zientara (ST)	Demmer-Kiwanis Children's Division Curative Workshop of Milwaukee 9001 W. Watertown Plank Road Milwaukee, Wisconsin 53226
Terri Porter (ST) Susan Colgan (PT) Linda Cron (Spec. Ed.)	Area Education Agency 12 1520 Morningside Avenue Sioux City, Iowa 51106
Jeannette Raychel (ST) Mary Miskov (PT) Tess Wolfmeyer (Spec. Ed.) Bernie Bates (OT)	Manitoba Orthopedic School 4040 West Forest Home Avenue Milwaukee, Wisconsin 53215
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Jim Reading (ST)	Marquette University Dept. of Communication Disorders 619 N. 16th Street Milwaukee, Wisconsin 53233

FUNDAMENTAL GUIDELINES IN
PRE-SPEECH AND LANGUAGE PROGRAMMING
WORKSHOP

October 30 - November 4, 1978

PARTICIPANT'S LIST

Diane Ryan (Spec. Ed.)	Misericordia Home 2916 W. 47th Street Chicago, Illinois 60632
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Lynne Weinberger (OT) Joseph Flynn (OT) Paula Gallivan (ST)	Woodhaven Center 2900 Southampton Road Philadelphia, Pennsylvania 19154
Maureen Carroll (ST) Barbara Wagner (Sp. Ed.) Naomi Soifer (Sp. Ed.)	St. Francis Children's Activity and Achievement Center 6700 N. Port Washington Road Milwaukee, Wisconsin 53217
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FUNDAMENTAL GUIDELINES IN

PRE-SPEECH AND LANGUAGE PROGRAMMING

WORKSHOP

November 28 - December 5, 1978

PARTICIPANT'S LIST

Joan Groh (ST) Susan Fandel (ST) Cathy LaForme (PT) Virginia Jurken (PT) Shawn Uttech (ST) Teryl Duckett (OT) Betty Harmann (PT) Diane Ott (ST) Wendy Harman (Spec. Ed.) Mary Jo Miedaner (PT) Susan Peterson (ST) Joan Brynildson (Spec. Ed.)	Waukesha County Schools Special Education Office 500 Riverview Avenue Waukesha, Wisconsin 53186
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Nancy Gudmundson (OT)	Appleton Area School District 120 E. Harris - P.O. Box 2019 Appleton, Wisconsin 54913
Pam Schrank (PT)	Sheboygan Area School District 2302 David Avenue Sheboygan, Wisconsin 53081

FUNDAMENTAL GUIDELINES IN
PRE-SPEECH AND LANGUAGE PROGRAMMING
WORKSHOP

January 15-20, 1979

PARTICIPANTS' LIST

Barbara Woodward (OT) Diane Johnston (ST) Holly Hobbs (PT)	Como Elementary School 780 W. Wheelock Parkway St. Paul, Minnesota 55117
Mary Ann Maiers (SP) Jean Cuta (OT) Ed Meyer (PT)	St. Catherine's Hospital 3556 - 7th Avenue Kenosha, Wisconsin 53140
Anita Niehaus (OT) Nancy Gramse (OT) Laura Klor (SP)	Elgin Easter Seal Treatment Center 799 S. McLean Boulevard Elgin, Illinois 60120
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Kay Summerfield (Sp. Ed.) Jean Montague (SP)	Anne Sullivan School 1567 Deckner Avenue Green Bay, Wisconsin 54302
Jim Helm (Sp. Ed.)	Prince George's County Public School EID Program 6700 Glenn Dale Road Glenn Dale, Maryland 20769
Terri Gartenberg (SP) Melissa McCarty (Sp. Ed.)	Rural Infant Stim. Environ. P. O. Box 2592 University, Alabama 35486
Janine Bjerklie (OT) Barb Crowell (PT) Karen McLennan (SP)	Nat G. Polinsky Rehabilitation Center 530 East Second Street Duluth, Minnesota 55805

FUNDAMENTAL GUIDELINES IN
PRE-SPEECH AND LANGUAGE PROGRAMMING
WORKSHOP

February 5-10, 1979

PARTICPANTS' LIST

Connie Beck (Home Trainer) Pat Berney (Sp. Ed.) Laurie Pipinich (Sp.Ed.) Sandy Meech (SP) Betsy Ellis (SP) Angela Knapstad (SP) Charlene Dalbec (PT)	Great Falls Public Schools Special Education Center 801 - 2nd Avenue North Great Falls, Montana 59401
Mary Price (SP) Patricia Joyce (OT) Jim Hamilton (Sp.Ed.)	Emerson School Box 520 Bozeman, Montana 59715
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FUNDAMENTAL GUIDELINES IN
PRE-SPEECH AND LANGUAGE PROGRAMMING
WORKSHOP

February 19-24, 1979

Cathy Shriver (SP) Bev Schilz (Sp.Ed.)	Curative Rehabilitation Center Demmer-Kiwanis Children's Division 9001 W. Watertown Plank Road Milwaukee, Wisconsin 53226
Susan Escalante (SP) Elizabeth McClendon (Sp.Ed.)	Ada Wilson Hospital 3511 S. Alameda Corpus Christi, Texas 78411
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PRE-SPEECH ASSESSMENT SCALE WORKSHOP
December 13 - 15, 1978

PARTICIPANT'S LIST

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Pat Pearman	Como Elementary School 780 W. Wheelock Parkway St. Paul, Minnesota 55117
Betty Zientara	Demmer-Kiwanis Children's Division Curative Workshop of Milwaukee 9001 W. Watertown Plank Road Milwaukee, Wisconsin 53226

PRE-SPEECH ASSESSMENT SCALE WORKSHOP

February 28 - March 2, 1979

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PRE-SPEECH ASSESSMENT SCALE WORKSHOP

June 4-6, 1979

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PARTICIPANT'S LIST

RELIABILITY STUDY/PROBLEM SOLVING WORKSHOP

May 3 - 4, 1979

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Patricia Hayes	Prince George's County Public Schools Early Identification Program 6700 Glenn Dale Road Glenn Dale, Maryland 20769
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APPENDIX D

EVALUATION OF GAINS IN KNOWLEDGE OF SIX-DAY WORKSHOP PARTICIPANTS

1. Self-Rating Scale

2. Pre-Speech and Language Programming Examination

WORKSHOP EVALUATION

RATING SCALE: WORKING WITH THE CEREBRAL PALSIED CHILD
Six Fundamental Guidelines Workshops
September, 1978 to February, 1979

The procedures used in evaluating the effectiveness of the Fundamental Guidelines Workshop by the participants' completion of the "Initial Workshop Evaluation Questionnaire" and in self-rating by the participants of changes in their own skill and knowledge in handling children with neurological problems with completion of the revised "Self-Rating Scale: Working With the Cerebral Palsied Child" has not been modified from that previously discussed for workshops held June, 1973 to November, 1974. Pre-test and Post-test means and difference scores or gains for a total group of 119 persons who participated in workshop training were computed and can be found on the accompanying charts for each of the 19 testing areas of the Self-Rating Scale.

All participants attending workshops since March, 1977 have been required to complete a Participant Information Sheet. This form provides more specific information on each individual's professional background and treatment caseload.

Results

The 119 workshop participants attending the six Fundamental Guidelines Workshops represented a multi-disciplinary group of professionals involved in speech pathology, physical therapy, occupational therapy, special education, and hometraining. Educational levels ranged from Bachelor's Degree to Doctorate Degree levels of professional training. All participants were currently involved in agencies replicating the Project or were working with cerebral palsied children or developmentally disabled children with neuromuscular-involvement and/or their families. Therefore, each possessed some information and skill in treatment techniques dealt with during the workshop prior to the workshop. Seven of the 119 participants had been trained in the 8-week Neurodevelopmental Treatment Course at the time of attendance at the six-day workshop. Approximately 53% of the participants have received substantial in-service or professional training from individuals trained in NDT.

Pre-Test Scores

The overall pre-test mean for all 119 participants was calculated to be approximately 2.432. This reveals that all participants had some knowledge of the areas when they came to attend the six-day workshop. Nine areas fell below this overall mean score including (e) Understanding the relationship of problems of abnormal postural tone and coordination to the development of pre-speech and speech skills (2.395), (f) Understanding of the normal sequence of development of oral feeding skills (2.217), (h) Ability to observe the child and identify the basic problems in the development of

pre-speech and language skills (2.127), (n) Ability to normalize the response of a hypersensitive child through grading of stimulation and handling (2.348), (o) Ability to develop and carry out a program to change a child's feeding capabilities and skills (2.028), (p) Ability to develop and carry out a program to change a child's breathing and voicing patterns (1.297), (q) Ability to develop and carry out a program to increase the amount and variety of spontaneous sound play in the child (1.88), (r) Ability to develop and carry out a group language stimulation program incorporating techniques of handling and stimulation (1.527) and (s) Ability to develop appropriate home programs which incorporate principles of handling and stimulation into the daily family routine (2.287). Two of the remaining areas were found to be above average with scores over three.

Post-Test Scores

The overall post-test mean for all 119 participants was found to have increased significantly to approximately 4.208. This represented a point between the high-level estimate of "some knowledge" and the low-level estimate of "much knowledge" of the areas. Twelve areas revealed scores below the overall post-test mean with four of these areas still remaining below a score of four including: (p) Ability to develop and carry out a program to change a child's breathing and voicing patterns (3.563), (q) Ability to develop and carry out a program to increase the amount and variety of spontaneous sound play in the child (3.967), (r) Ability to develop and carry out a group language program incorporating techniques of handling and stimulation (3.785) and (s) Ability to develop appropriate home programs which incorporate principles of handling and stimulation into the daily family routine (3.93). Six areas received scores between the overall mean of 4.208 and the greatest post-test mean of 4.783 on (j) Personal feelings of comfort in physically handling children.

Difference Scores

Examination of difference scores (gains) between pre-test and post-test measures revealed an average increase of 1.775 points on the scale. Nine areas showed gains over the average increase. Gains of over two points were noted in (e) Understanding the relationship of problems of abnormal postural tone and coordination to the development of pre-speech and speech skills (2.218), (f) Understanding of the normal sequence of development of oral feeding skills (2.133), (o) Ability to develop and carry out a program to change a child's feeding capabilities and skills (2.088), (p) Ability to develop and carry out a program to change a child's breathing and voicing patterns (2.267), (q) Ability to develop and carry out a program to increase the amount and variety of spontaneous sound play in the child (2.087), and (r) Ability to develop and carry out a group language program incorporating techniques of handling and stimulation (2.258). Ten of the gain scores were less than the average with none falling below a one point gain.

Discussion and Intrepretation

It is significant that the areas in which participants felt they had the least knowledge and skills were those related directly to developing pre-speech programs in feeding, breathing and voicing, sound play, and language stimulation and to those related to understanding feeding development. In addition, participants felt they lacked knowledge in understanding the relationship of abnormal tone and coordination to the development of pre-speech skills. All but one of these areas showed gains that were greater than average. The more extensive use of project materials, films, and videotapes on feeding and more emphasis placed on the relationship of movement to pre-speech skills may account for these substantial gains. Substantial gains in the areas of pre-speech, feeding, breathing, and voicing programming, also support the usefulness of treatment and evaluation videotapes used to provide the participant with examples of such sessions.

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SELF-RATING SCALE SUMMARY (July 1, 1978 - June 30, 1979)

Mean Scores and Pre-Test/Post-Test Gains

	Sept., 1978			Oct., 1978			Nov., 1978			Jan., 1979			Feb. 5, 1979			Feb. 19, 1979		
	Pre-Test	Post Test	Gain	Pre-Test	Post Test	Gain	Pre-Test	Post Test	Gain	Pre-Test	Post Test	Gain	Pre-Test	Post Test	Gain	Pre-Test	Post Test	Gain
a. Understanding the movement problems of the cerebral palsied child.	2.58	4.12	1.54	2.81	4.00	1.19	2.95	4.57	1.62	3.44	4.95	1.51	2.99	4.63	1.64	3.04	4.14	1.10
b. Understanding the relationship between movement and cognitive, emotional and social development.	3.00	4.71	1.71	3.00	4.33	1.33	2.86	4.52	1.66	4.22	4.60	.38	3.26	4.69	1.43	3.07	4.13	1.06
c. Understanding the role of the postural reflex mechanism in the development of movement.	2.05	4.41	2.36	2.52	4.10	1.58	2.52	4.71	2.19	3.50	4.80	1.30	2.52	4.63	2.11	2.11	4.12	2.01
d. Understanding the role of stimulation and overstimulation in the development of normal and abnormal tone and movement.	2.16	4.82	2.66	2.81	4.29	1.48	2.86	4.81	1.95	3.11	5.05	1.94	2.89	4.94	2.05	3.04	4.19	1.15
e. Understanding the relationship of problems of abnormal postural tone and coordination to the development of pre-speech and speech skills.	2.11	4.76	2.65	2.10	4.10	2.00	2.10	4.76	2.66	3.11	4.95	1.84	2.84	4.94	2.10	2.11	4.17	2.06
f. Understanding of the normal sequence of development of oral feeding skills.	1.68	4.47	2.79	2.43	4.29	1.86	1.57	4.14	2.57	3.00	4.40	1.40	2.52	4.63	2.11	2.10	4.17	2.07
g. Ability to observe the child and identify the basic problem with postural tone and movement.	2.16	3.94	1.78	2.29	4.00	1.71	2.43	4.29	1.86	3.50	4.25	.75	2.37	4.38	2.01	2.16	4.13	1.97
h. Ability to observe the child and identify the basic problems in the development of pre-speech and language skills	1.68	3.94	2.26	2.33	3.86	1.53	1.48	3.86	2.38	2.89	4.35	1.46	2.37	4.56	2.19	2.01	4.09	2.08

SELF-RATING SCALE SUMMARY (July 1, 1978 - June 30, 1979)

Mean Scores and Pre-Test/Post-Test Gains

	Sept., 1978			Oct., 1978			Nov., 1978			Jan., 1979			Feb. 5, 1979			Feb. 19, 1979		
	Pre-Test	Post Test	Gain	Pre-Test	Post Test	Gain	Pre-Test	Post Test	Gain	Pre-Test	Post Test	Gain	Pre-Test	Post Test	Gain	Pre-Test	Post Test	Gain
i. Ability to develop a treatment plan appropriate to the child's needs and abilities.	2.21	3.88	1.67	2.57	3.62	1.05	2.10	3.95	1.85	3.11	4.50	1.39	2.68	4.38	1.70	3.01	4.10	1.09
j. Personal feelings of comfort in physically handling children.	2.79	4.53	1.74	3.00	4.43	1.43	3.29	4.62	1.33	3.94	5.40	1.46	3.79	4.69	.90	4.08	5.03	.95
k. Ability to normalize postural tone through positioning and handling.	2.16	3.76	1.60	2.33	3.90	1.57	2.48	3.71	1.23	3.17	4.65	1.48	2.63	4.00	1.37	3.03	4.13	1.10
l. Ability to stimulate better head and trunk control through positioning and handling.	2.21	3.76	1.55	2.52	4.24	1.72	2.62	4.10	1.48	3.28	4.45	1.17	2.63	4.19	1.56	3.04	4.14	1.10
m. Ability to provide an appropriate amount of sensory stimulation for learning.	2.16	4.12	1.96	2.67	3.81	1.14	2.43	4.05	1.62	3.50	4.50	1.00	3.00	4.56	1.56	2.16	4.11	1.95
n. Ability to normalize the response of a hypersensitive child through grading of stimulation and handling.	1.95	3.76	1.81	2.24	3.86	1.62	2.24	4.00	1.76	3.22	4.30	1.08	2.32	4.50	2.18	2.12	4.12	2.00
o. Ability to develop and carry out a program to change a child's feeding capabilities and skills.	1.32	3.59	2.27	2.29	4.24	1.95	1.38	3.76	2.38	2.72	4.50	1.78	2.37	4.50	2.13	2.09	4.11	2.02
p. Ability to develop and carry out a program to change a child's breathing and voicing patterns.	1.00	3.65	2.65	1.62	3.38	1.76	.76	3.48	2.72	1.72	3.90	2.18	1.58	3.81	2.23	1.10	3.16	2.06

SELF-RATING SCALE SUMMARY (May 1, 1978 - June 30, 1979)

Mean Scores and Pre-Test/Post-Test Gains

	Sept., 1978			Oct., 1978			Nov., 1978			Jan., 1979			Feb. 5, 1979			Feb. 19, 1979		
	Pre-Test	Post Test	Gain	Pre-Test	Post Test	Gain	Pre-Test	Post Test	Gain	Pre-Test	Post Test	Gain	Pre-Test	Post Test	Gain	Pre-Test	Post Test	Gain
q. Ability to develop and carry out a program to increase the amount and variety of spontaneous sound play in the child.	1.89	3.94	2.05	2.00	4.00	2.00	1.14	3.76	2.62	2.22	3.90	1.68	2.00	4.19	2.19	2.03	4.01	1.98
r. Ability to develop and carry out a group language program incorporating techniques of handling and stimulation.	1.47	3.82	2.35	1.48	3.29	1.81	1.00	3.81	2.81	2.33	4.15	1.82	1.79	3.63	1.84	1.09	4.01	2.92
s. Ability to develop appropriate home programs which incorporate principles of handling and stimulation into the daily family routine.	2.00	3.70	1.70	2.38	3.62	1.24	2.14	4.00	1.86	2.78	4.15	1.37	2.32	4.06	1.74	2.10	4.05	1.95
Workshop Means	2.03	4.09	2.06	2.39	3.97	1.58	2.12	4.15	2.03	3.09	4.51	1.42	2.57	4.42	1.84	2.39	4.11	1.72

Test on Pre-Speech and Language
Programming for Cerebral Palsied Children

September, 1978 - February, 1979

One procedure used to evaluate the effectiveness of the Fundamental Guidelines in Pre-Speech and Language Programming Workshop is the completion of the test on Pre-Speech and Language Programming for Cerebral Palsied Children by all workshop participants prior to the start of the workshop (pre-test) and on the final day of the workshop (post-test). This test is also given to all participants from new replication facilities at the time of the follow-up site visit (post/post-test) in order to evaluate the influence of practical experience and time on the knowledge obtained during the Fundamental Guidelines Workshop.

Test scores have been analyzed in relation to an established 80% correct level of mastery (see the following table summarizing percentages of participants achieving 80% correct level of mastery). Participants in all six Fundamental Guidelines Workshops conducted this project year exhibited major increases in knowledge as revealed in the percent of those achieving an 80% correct level of mastery between the pre-test and post-test examinations. Those attending the September 11-16, 1978 workshop exhibited the greatest gains while those attending the January 15-20, 1979 workshop exhibited the smallest gains.

In general, scores on the post/post-test were not as high as those achieved on the post-test. Participants from four of the six workshops revealed smaller percentages of mastery on the post/post-test than on the post-test. However, none of the mastery level percentages on the post/post-test dropped below the level of mastery initially exhibited on the pre-test examinations. Obviously, knowledge is gained through workshop attendance, but is not maintained to as great an extent after several months of individual practical experience.

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TEST ON PRE-SPEECH AND LANGUAGE PROGRAMMING

FOR CEREBRAL PALSIED CHILDREN

Six-day Workshop Dates	Summary of Percentages of Workshop Participants Achieving 80% Correct Level of Mastery		
	Pre-Test	Post-Test	Post/Post-Test*
September 11-16, 1978	16%	89%	77% (13)
October 30 - November 3, 1978	33%	81%	76.5% (17)
November 28 and December 3-5, 1978	43%	95%	100% (4)
January 15-20, 1979	40%	75%	92% (12)
February 5-10, 1979	25%	90%	62.5% (16)
February 19-24, 1979	12%	76.5%	70% (10)

*Participants are given post/post-tests at the time of the initial follow-up site visit conducted by project staff.

APPENDIX E

CONSULTANT ACTIVITIES

1. Pre-Linguistic/Cognitive Development Activities
2. Nutritional Activities
3. Pre-Speech Assessment Scale and the Reliability Study

1. Pre-Linguistic/Cognitive Development Activities

Pre-Linguistic/Cognitive Development Activities were conducted by Mrs. Joan Olson and Mrs. Regi Haebig and have been organized into a paper entitled, "Ordinal Scales of Psychological Development Modified for Neurologically Handicapped Children." This paper is only partially completed since modifications have only been made for the Užgiris and Hunt Scales from birth to 12 months of age. The scales through two years of age will be modified during the 1979-80 project year.

Modifications in the Užgiris and Hunt Ordinal Scales of Psychological Development (birth - 12 months) were made in order to better equip these cognitive scales for use with neuromuscularly-involved children. In addition to changes in the actual scale items and testing procedures, specific emphasis has been placed on explaining the neuromotor problems which may interfere with the assessment of cognitive abilities. Since the modification of scale items included the necessary modification of testing materials, lists of suggested scale materials and equipment sources were included.

An extensive review of literature pertaining to the assessment of pre-linguistic and cognitive skills in the neuromuscularly-involved child was conducted. An extremely limited number of references were found. A bibliography containing many of these references has been included in the "Ordinal Scales of Psychological Development Modified for Neurologically Handicapped Children."

A demonstration videotape was developed which shows a neuromuscularly-involved child's performance on specific scale items without modification and then with modifications. It emphasizes the more accurate information obtained when the child is able to actually attempt to perform modified test activities.

2. Nutritional Activities

Mrs. Resnick developed a nutritional intake questionnaire used to collect physical and nutritional data on infants and children who have suspected or diagnosed neuromuscular involvement.

In order to establish nutritional guidelines, specific procedures and training for the use of the nutritional intake questionnaire were devised. Children from birth - 24 months who came to the Curative Rehabiliation Center with suspected or diagnosed neuromuscular damage and possible feeding problems were evaluated. Unfortunately, a very limited number of infants and children meeting established criteria were evaluated at Curative. Therefore, no statistically significant nutritional guidelines could be established at this time. However, nutritional information analysis has been completed for those children (less than ten) for whom information was collected. A review has been made of literature which discusses the nutritional status of children with neuromuscular involvement.

3. Pre-Speech Assessment Scale and the Reliability Study

In December, 1978, the 1978 revision of the Pre-Speech Assessment Scale was distributed to all trained individuals (approximately 60) still participating in the Reliability Study. This revision was based upon information obtained from those who used the 1977 version of the Scale and from suggestions provided by a statistical consultant.

Three Pre-Speech Assessment Scale workshops were conducted December 13 - 15, 1978, February 28 - March 2, 1979 and June 4 - 6, 1979. A total of thirty-nine participants were trained in the administration of the 1978 revision of the Pre-Speech Assessment Scale.

A Reliability Study/Problem Solving Day Workshop was conducted on May 3 -4, 1979. Twenty-two participants attended and provided reliability information on the 1978 version of the Scale. In addition, a set of reliability films was sent to one of our sites in St. Paul, Minnesota so that five trained individuals could provide reliability information when viewing films at their own center. This served as a successful pilot for procedures to be used in the 1979-80 project year. All information obtained from those participating in reliability activities has been compiled to make any necessary modifications in the 1979 version of the Scale.